0.00

0.00

120

Quality Control

OC6- Inspect dimensions to drawing

Memo

Dart Aerospace Ltd

W/O:			W	ORK ORDER CHANGI	ES				· · · · · · · · · · · · · · · · · · ·
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	egory:	NCR: Yes	No DQ	A :	Date:	
	Re	esolution:	Disposition	on:	_ QA: N/C C	losed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCF	₹)			
DATE	STEP	Description of NC		Corrective Action Section		Verific		Approval	Approval
DAIL	O.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign of Date		on C	Chief Eng	QC Inspector
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NOTE: Date & initial all entries

Work Order ID 61643



Page 2

August 31, 2010 8:48:11 AM

Item ID:

D3671-1

Revision ID:

Placard Item Name:

Start Date: 8/31/10 Required Date: 9/03/10

Start Qty: 30.00

Req'd Qty: 30.00

Accept

Run

Setup Start

Stop

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: Date:

QC:

Date:

Tooling:

SPC (Y/N):

Date:

Tool ID

Date:

Start

Stop

Sequence ID/ Work Center ID

130

Packaging

Packaging

Operation Description

Identify as per dwg & Stock Location:

Memo

Set Up/ **Run Hours**

0.00

0.00

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

140

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

Dart Aerospace Ltd

	•								
W/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						;			
							1		
Part No	•	PAR #:	Fault Cat	egory:	_ NCR: Yes	No DQ	A:	Date: _	
	Re	esolution:	Dispositi	on:	_ QA: N/C	Closed:		Date: _	
NCR:			WORK ORI	DER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC		Corrective Action Section		Verifi	cation	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat		ion C	Chief Eng	QC Inspector
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NOTE: Date & initial all entries

Picklist Print

August 31, 2010 8:48:10 AM

Work Order ID: 61643

Parent Item: D3671-1

Parent Item Name: Placard

Start Date: 8/31/10

Required Date: 9/03/10

Page 1

Start Qty: 30.00

Required Qty: 30.00

Comments:

IPP: A□07.11.12 ecn 1019 New issue□ EC verified by:DD

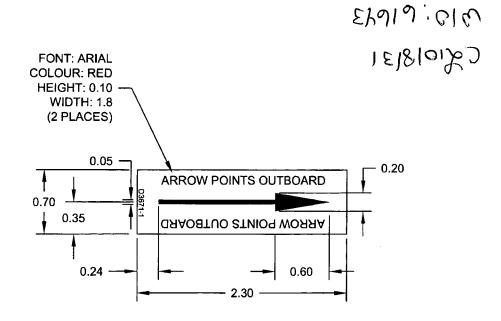
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3671-1P		Purchased	No				Each	0.0000	1	30	Pe	1/5/	2 80

Placard

Dart Aerospace Ltd

									
W/O:			WC	ORK ORDER CHANGE	S				
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date: _	
	R	esolution:	Dispositio	n:	QA: N/C C	losed:		Date: _	
NCR:		V	WORK ORD	ER NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC	1	Corrective Action Section			cation	Approval	Approval
DAIL	JILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		ion C	Chief Eng	QC Inspector
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NOTE: Date & initial all entries



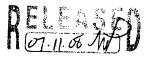
D3671-1 PLACARD

NOTES:

1) MATERIAL: RED ARROW ON WHITE ADHESIVE BACK VINYL

MANUFACTURED FROM 3M 7 MIL MASKING FILM #8522CP OR AVERY IPM #2031. SIZE IS 2.30" LONG x 0.70" WIDE

- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A



Α	NEW IS	SSUE		DC	07.08.27				
REV.			BY	DATE					
DESIGN		SC	DART AEROSPACE LTD						
DRAWN		DC	HAWKESBURY, ONTAR	IO, CANA	ADA				
CHECKE	ĒD	V.	DRAWING NO.	-	REV. A				
MFG. AF	PPR.	120	D3671		SHEET 1 OF 1				
APPROV	√ED	M	TITLE		SCALE				
DE APPI	R.		PLACARD		1:1				
DATE	07.0	8.27	COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.						



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO12474

Purchase Order Date 8/31/10 PO Print Date 8/31/10

Page Number 1 of 1

Order From:

VC-STU001

STUDIO DE LETTRAGE 2001 210 MAIN WEST

HAWKESBURY, ON K6A 2H6

Contact Name

Vendor Fax

Vendor Phone

613 632 5449 613 632 9491

Vendor Account Nbr

Buyer

Requisition Nbr

Tax Resale Nbr

Terms Currency

FOB

Chantal Lavoie

10127-2607 Net 30

CAD

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Line Nbr Reference **Revision ID** Vendor Part Number Description/ Mfg ID

Req Date/ Req Qty/ Taxable Unit of Measure

Ship Method

Unit Price

Extended

Price

D3671-1P Placard

9/03/10

30.00 Each

Yours ppd

\$5.0000

\$150.00

Special Inst:

AS PER DWG D3671 REV. A

Yes

B61643

PO Total:

\$150.00

CERTIFICATE OF CONFORMITY REQ'D UPON DELIVERY



No substitution or deviation without consent.

Certificate of Conformity or Material Certification required when applicable

Change Nbr:

Change Date: 8/31/10

Studio de Lettrage

210 Main Street W Hawkesbury, Ontario K6A 2H6 **INVOICE**

Invoice No.:

14455

Date:

09/02/2010

Ship Date:

Re: Order No.

Page:

1

9463

Sold to:

Dart Aerospace Ltd

1270 Aberdeen Hawkesbury, Ontario K6A 1K7 Ship to:

Dart Aerospace Ltd

Hawkesbury, Ontario

869034678RP0001

Business No.:	869034678RP00		and the second	erisk serier	HACABARA, ANSONTO TESTES ESCUA (S.A.	Contract (\$ 5.45.45 \$ 60.65 \$ 00.75)
- Item No.	Unit	Quantity ,	Description //	Tax	√ Unit Price	Amount
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			PST Exempt: #6122-5207			
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		2004				
Studio de Lettrage						
Shipped By: Comment: PO	Tracking N	number:			Total Amoun	113.00
Sold By:						

Product Bulletin 8522

3M

Release F, Effective January 2003 Black bar in margin indicates a change

Scotchcal [™] Opaque Imaging Media 8522

Description

This media is specially formulated to dry quickly after printing. Production of outdoor weatherable and long-term indoor durable graphics is now easier than ever. Its changeable adhesive allows easy removal for up to one year.

Advantages

- Optimized for use with selected Epson Stylus Pro printers and Epson Archival inks.
- Optimized for use with selected HP DesignJet Printers and HP DesignJet Ink System UV or HP83UV Color Ink System
- For making opaque, laminated graphics that are outdoor weatherable and long-term indoor durable
- Media:
 - For opaque (reflective) graphics
 - Changeable, easy to remove from warranted substrates up to 1 year later
 - Dries quickly after printing so the overlaminate can be applied almost immediately
 - Low slippage paper liner for superior tiling
- Overlaminates:
 - Provide additional UV (ultraviolet) and physical protection for making weatherable finished graphics
 - Available in luster and matte gloss
 - Adhesive allows for heat-assisted or cold-temperature lamination

Applications and Uses

3M [™] Scotchcal [™] Changeable Opaque Imaging Media 8522 is intended only for ink jet printing and for use with the listed Compatible Products and Equipment and the following applications. Any other application is NOT warranted by 3M or covered by the worldwide 3M [™] MCS [™] Warranty unless 3M gives its prior written approval for the application.

- First surface images (the image is on top of the film) for opaque posters and signs, including:
 - Graphics for vans, personal vehicles, trucks and
 - Novelty posters
 - Retail and point-of-purchase displays
 - Information graphics such as maps and directories
 - Entertainment promotions in museums, zoos, parks, theatres, sports venues
 - Education and presentation graphics

- Legal and courtroom exhibits
- For flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications

Limitations of End Uses

The following uses and applications are specifically NOT warranted.

- Fleet applications in areas that use salt for winter road maintenance
- Application to non-warranted substrates, including wallboard
- Applications subjected to gasoline vapors or spills
- Application to corrugated or highly irregular surfaces or sharply raised areas
- Graphics applied to stainless steel, including stainless steel vehicles
- On flat surfaces with rivets, tenting of 4 to 10 mm around rivets may be expected; rivets may be cut around to eliminate tenting.

Note: Standard ink jet technology is water based. Water-based chemistry is susceptible to the extremes of heat and humidity. This is a factor in most product constructions on the market. Read the Fabrication, Shelf Life and Storage sections in this bulletin. Staying in the middle of these ranges always provides optimum performance.

Compatible Products and Equipment

Thermal Ink Jet Printing Systems

- Epson Stylus Pro 9500, Stylus Pro 10000 printer
 - Epson Archival Inks
- Epson Stylus Pro 10600 printer
 - Epson Archival Inks
- HP DesignJet Printers 2000 and 3000 series
 - HP DesignJet Ink System UV (pigment-based ink)
- HP DesignJet Printers 5000 series
 - HP83UV Color Ink System

Overlaminates (required)

- 3M™ Luster Overlaminate 8519 (semi-gloss)
- 3M™ Matte Overlaminate 8520

Note: For the full product names of the 3M products listed on this page, please see page 1.

Warranted Substrates

Media 8522 is warranted for use on the following rigid substrates.

Some substrates may "out-gas", resulting in tiny bubbles throughout the surface of the graphic. For maximum performance, be sure the substrate you select is properly cleaned and prepared as recommended by the manufacturer. See Instruction Bulletin 5.1 for additional information.

- Alodine (anodized aluminum)
- Automotive panels (automotive painted steel)
- Fruehauf (painted aluminum)
- FRP (fiberglass reinforced plywood)
- Imron® (polyurethane-painted metal panel)
- Acrylic
- Sintra board

Test and Approve Non-warranted Substrates Before Use

Media 8522 is not warranted for any substrate other than those listed above. If you want to use it for other substrates, 3M recommends that you test and approve the media for both adhesion and removal characteristics.

Characteristics

Characteristic	Description
Media	7 mil, white, opaque graphic film
Liner	Low-slippage, lay tlat paper
Adhesive	Changeable, pressure sensitive
Thickness (media and adhesive)	7.5 to 8 mil (nominal)
Application substrates	See Warranted Substrates, above
Application surfaces	Flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications (no corrugations)
Application temperature range	28° to 110°F (-2° to 43°C) (air and surface)
Roll sizes	36" x 45 feet (914 mm x 13.5 m) 54" x 45 feet (1372 mm x 13.5 m)

How to Become a 3M Ink Jet **Registered Fabricator**

Only 3M Thermal Ink Jet Registered Fabricators are eligible to offer 3M MCS warranted graphics. In order to become certified, a fabricator must complete the requirements as specified in the 3M Ink Jet Graphics Registered Fabricator Reference Manual located on the 3M website at www. scotchprint.com

Effective Performance Life

To obtain the warranty given below, the graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3. Also see the section, Removability.

Warranted Durability

Media 8522	Epson Pr	inters	HP Printers			
With Overlaminate 8519 or 8520	Outdoor	Indoor	Outdoor	indoor		
Applied to Warranted Substrates	2 years	5 years	3 years	5 years		

Removability

Imaging media 8522 is removable from warranted substrates for I year without the aid of chemical strippers or accessories. Refer to Instruction Bulletin 4.23 for additional information.

Fabrication

Graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3.

See Instruction Bulletin 4.23 for detailed fabrication, printing and mounting information.

Graphic Construction Options

Opaque (Reflective) Graphics

Opaque graphics made with imaging media 8522 require an overlaminate and an opaque substrate.

Viewer/Light Source Overlaminate 8519, 8520 Adhesive on bottom imaging Media 8522 image on top; adhesive on bottom Opaque Substrate

Note: For the full product names of the 3M products listed on this page, please see page 1.

Shelf Life and Storage

- 3M™ Scotchcal™ Changeable Opaque Imaging Media 8522 has a shelf life of one year.
- Storage conditions (new and partially used rolls). For optimum performance, use the middle of these ranges:
 - Original packaging, including plastic wrap
 - Relative humidity of 20% to 80%
 - Temperature of 33° to 104°F (0° to 40°C)
 - Away from direct sunlight
- Do not stack unprotected rolls or lay sharp or heavy objects on them.

Health and Safety

Caution

When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations.
- Electronically, visit us at http://www.3M.com/msds.
- By mail, or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturers' instructions for safe operation.

Warranty and Limited Remedies

3M™ MCS™ Warranty for Graphics Produced on HP DesignJet Printers and Epson Stylus Pro Printers

The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: We warrant graphics produced by a 3M Ink Jet Registered Fabricator made with imaging media 8522, printed on an approved HP thermal ink jet printer according to HP's recommendations or Epson Stylus Pro printer according to Epson's recommendations, overlaminated with 8519 or 8520, and applied to a Warranted Substrate according to 3M's recommendations. These

graphics are covered against failure caused by ultraviolet light, temperature extremes, pollution, and other elements.

If a graphic fails to perform in accordance with 3M product specifications within this time frame, 3M will replace the materials at no charge. These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor charges.

3M Related Literature

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our Web site at www.scotchprint.com, or order them via our Faxon-Demand (FOD) system. Call one of these phone numbers to order the desired bulletins, and specify the FOD document number provided in the chart.

United States or Canada: 1-800-364-0768 International: 1-651-732-6506

International: 1-651-732-0500	Bulletin No.	FOD No.
Subject		
Product Bulletins 3M™ Scotchcal™ Overlaminate 8519 and 8520	8519/8520	4524
Instruction Bulletins	4.23	6523
Making thermal ink jet graphics		7001
Application, substrate selection, preparation and substrate-specific application techniques	5.1	
Mercanties		9503
Worldwide 3M MCS Warranty Pack (includes all Commercial Graphics MCS Wa		0.50
Worldwide 3M™ MCS™ Warranty Over	view-Folder	9504

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Bulletin Change Summary

The Epson Stylus Pro Printers 9500, 10000 10600, and Epson Archival Inks have been added to this bulletin. Additional changes resulting from this addition are marked with black bars in the margin.

3M

Commercial Graphics Division 3M Center, Building 220-6W-06 PO Box 33220 St. Paul, MN 55133-3220 USA General Into. 1-800-374-6772 Technical Info. 1-800-328-3908

Fax 1-651-736-4233

www.scotchprint.com

3M Canada P.O. Box 5757 London, Ontario Canada N6A 4T1 1-800-265-1840 Fux 519-452-6245

Fax-on-Demand 1-800-364-0768 US/Canada or 1-651-732-6506 International Fax-on-Demand document: 4506

3M México, S.A. de C.V. Av. Santa Fe No. 55 Col. Santa Fe, Del. Alvaro Obregón México, D.F. 01210 52-55-52-70-04-00 Fux 52-55-52-70-22-77

3M Puerto Rico, Inc. Puerto Rico Industrial Park P.O. Box 100 Carolina, PR 00986-0100 787-620-3000 Fax 787-750-3035

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